

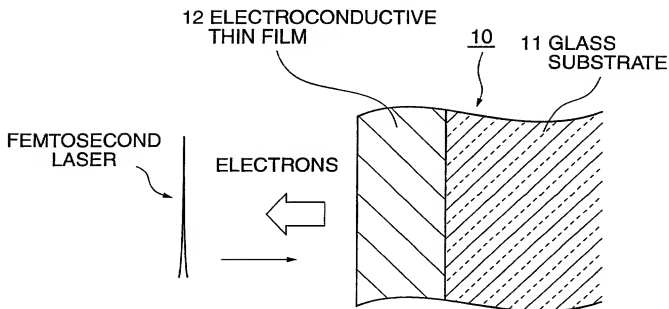
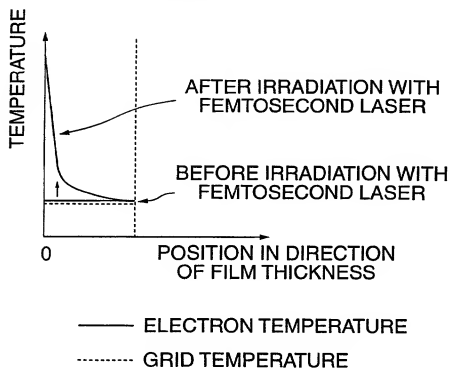
FIG.1A**FIG.1B**

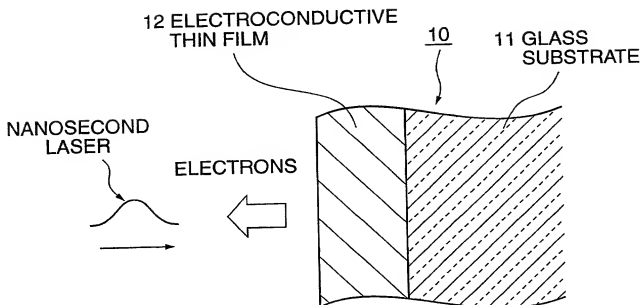
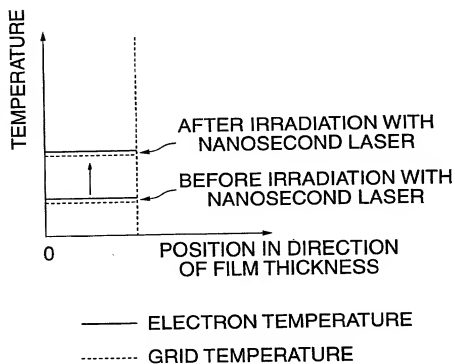
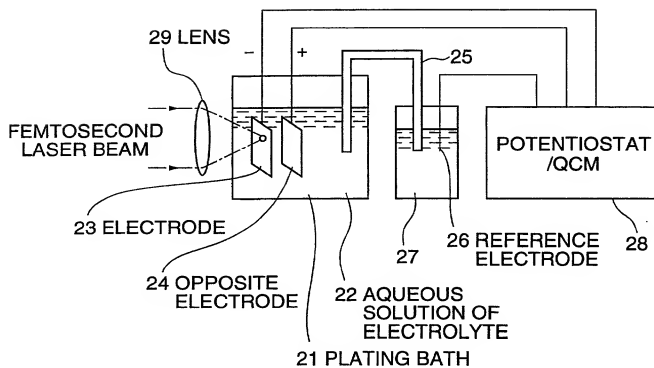
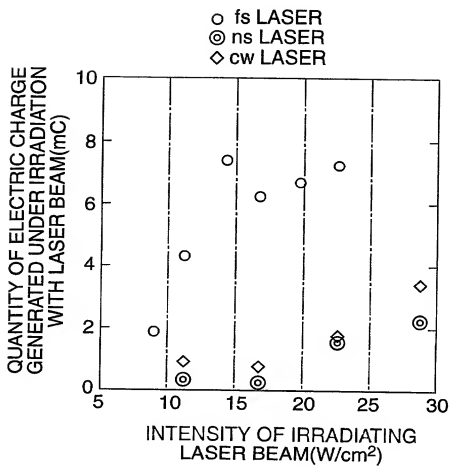
FIG.2A**FIG.2B**

FIG.3

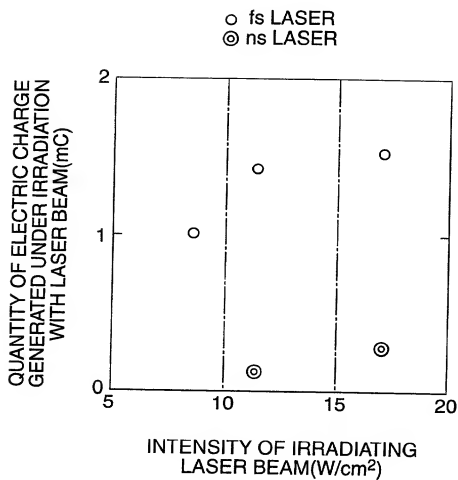
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FIG.4



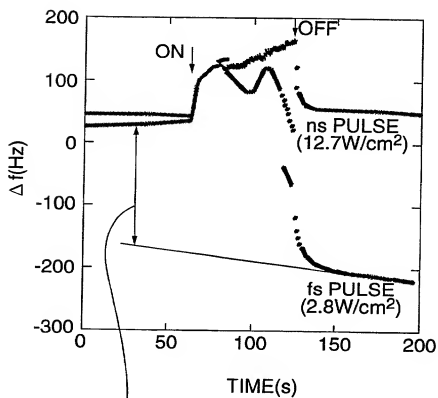
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FIG.5



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FIG.6



WEIGHT INCREASE
ALONG WITH
PLATING FORMATION

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FIG.7

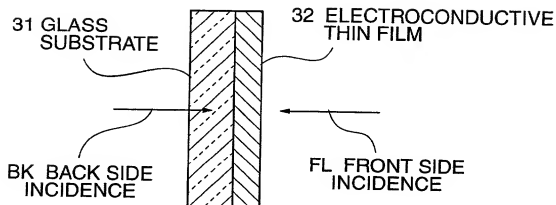
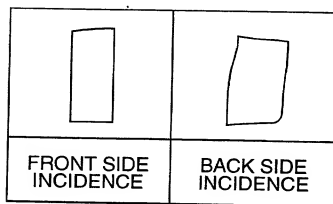


FIG.8



T1: IRRADIATION WITH SAPPHIRE LASER BEAM
(2 W/cm², -600mV, 150s)

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FIG.9

	Cu	Ni	O	C
fs LASER INCIDENT ON FRONT SIDE	12	12	37	39
fs LASER INCIDENT ON BACK SIDE	19	0	29	52

(atomic%)

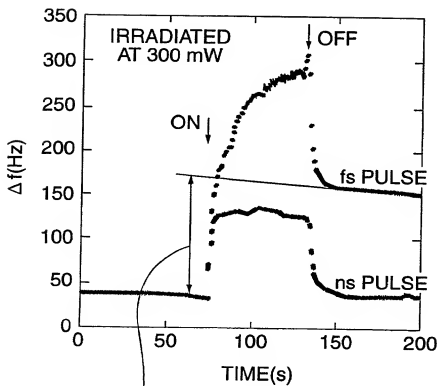
NOTE 1) COMPOSITION MAY INVOLVE ERRORS OF
UP TO ABOUT 30%.

NOTE 2) ANALYSIS DEPTH OF XPS IS A FEW nm.

NOTE 3) MOST PART OF DETECTED C IS ATTRIBUTABLE TO
HYDROCARBONS, WHICH CONTAMINATE SURFACE.

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FIG.10



WEIGHT DECREASE
ATTRIBUTABLE TO ETCHING

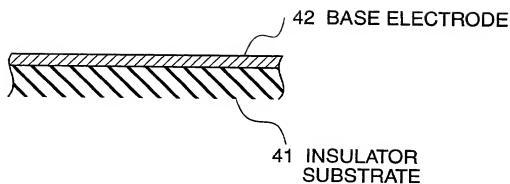
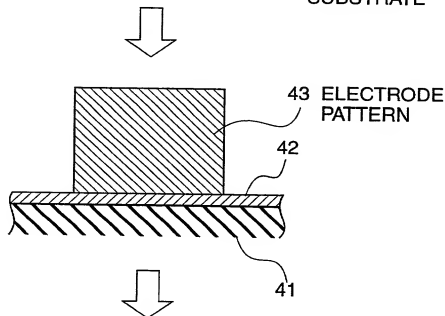
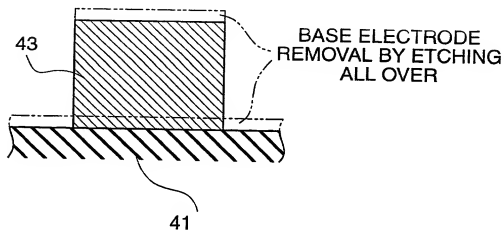
FIG.11A**FIG.11B****FIG.11C**

FIG.12A

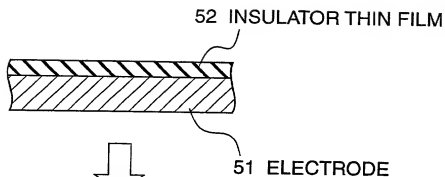


FIG.12B

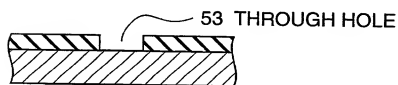


FIG.12C

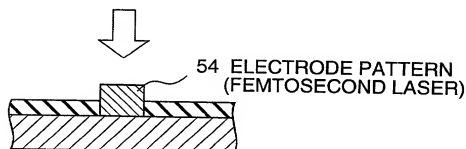
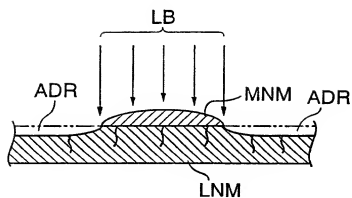


FIG.12D

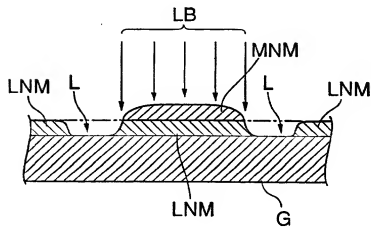


FIG.13



PRIOR ART

FIG.14



PRIOR ART